

VASCULAR BIOTHERAPEUTICS

U N I V E R S I T Y O F U T A H

CENTER

The Center for Vascular Biotherapeutics is focused on commercializing medical strategies and devices that target blood vessel formation for the treatment of cancer and obstructive vascular diseases such as atherosclerosis. This Center capitalizes on a robust scientific program aimed at deciphering the molecular blueprint for vessel regeneration using human genetics and transgenic mice technologies; these technologies were pioneered at the University of Utah. The "Functional Vascular Genetics" program established at the University of Utah is identifying genes that are essential for vascular development.

TECHNOLOGY

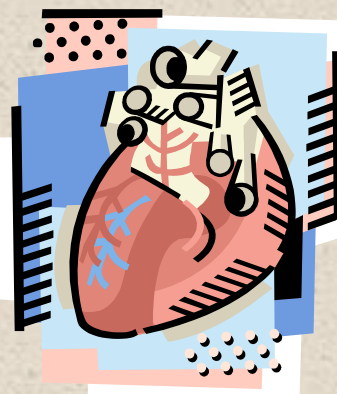
The Center for Vascular Biotherapeutics offers three fundamental and complementary technology benefits. First, using a functional human genetics approach, we have identified genes that are required for vascular development. Knowing which genes are essential for blood vessel formation and understanding their mechanism of action are required for developing strategies to modulate vessel growth in the treatment of cancer and vascular diseases. This center has also generated assays that rely on genetically manipulated cell lines that are proprietary and enable us to discover new signaling pathways and the Center focuses on developing real products.

ACCOMPLISHMENTS

New IP has been filed and discussions with companies on developing targets are being initiated. Negotiations for a licensee are in progress and we have designed and tested a first generation elastin sheath-stent and showed it to be effective in preventing restenosis in a porcine model. This success has directly led to the development of a second-generation elastin peptide stent.

THINK TANK

What if there was
a way to...



**Decipher the
molecular blue-
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